

UNICOIL launches energy-saving pre-painted galvanized steel sheets Shinko

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Energy consumption is now taking more attention in most countries worldwide, rich and poor alike, with focus on the development of alternative sources to cater to the high energy consumption of industrial plants and equipment, and on the development of energy-saving products such as lighting and electrical appliances.

In this context, UNICOIL, a Saudi industrial company has developed and now introduced an innovative energy-saving pre-painted steel product (Shinko). This product has advanced specifications and is the first steel product of its kind, both at the national level and throughout the GCC and the Middle East. This state-of-the-art product supports the Kingdom's drive to save energy through the development and use of smart energy-saving products.

Most pre-painted steel products are used for the walls and roofs of industrial hangars, storage warehouses, and workshops. Due to the hot climatic conditions in Saudi Arabia, white pre-painted steel is the most widely used, given its scientifically and practically proven low heat absorption properties, which reduces heat permeability inside these buildings, compared to darker colors.

In its constant endeavour to meet local and regional market needs, UNICOIL studies have revealed that many consumers would like to use colors other than the dominant white. At the same time, they fear that these other colors will be more heat absorbent and allow more unwanted heat to permeate into production and storage facilities.

Based on the findings of a market study, UNICOIL in coordination with world-renowned paint manufacturers worked together to develop energy-saving paints for use in pre-painted galvanized steel coatings. These cooperative efforts have resulted in the development and introduction of smart paints in a variety of colors, including white, rightly named "Energy-Saving Colorite."



The function is based on mechanisms of solar reflection and energy absorption that minimize heat penetration into pre-painted steel structures. These two mechanisms ensure that the majority of sunlight is reflected outwards and that heat permeation is minimized, thereby reducing air-conditioning requirements in buildings, industrial hangars, and warehouses and so directly and effectively reducing energy consumption.

In addition to the advanced property of reducing heat inside a building, the application of Energy-Saving Colorite to pre-painted steel reduces thermal stresses in the product and thus enhances its resilience and extends the useful life of the building.

This outstanding development of the Shinko product will further advance Saudi national industries at the regional level. The manufacturing of this product adds to the innovative smart products that will attract the interest of national projects as they strive to conserve energy, which is now a national preoccupation both in the Kingdom and in most other countries of the world.

UNICOIL is the oldest and largest manufacturer of pre-painted galvanized steel in the Middle East and North Africa, and it excels on its strategy that focuses on introducing state-of-the-art smart products as part of its primary product mix, thereby advancing the traditional uses of steel products.

Source: MEsteel.com

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